

## **RAW SEQUENCE LISTING ERROR REPORT**

BIOTECHNOLOGY  
SYSTEMS  
BRANCH



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number: 09/404,010

Source: 1646

Date Processed by STIC: 7-26-00

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THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.

PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR FURTHER INFORMATION, PLEASE TELEPHONE MARK SPENCER, 703-308-4212.

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

### **Checker Version 3.0**

The Checker Version 3.0 application is a state-of-the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 - 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money.

Checker Version 3.0 can be down loaded from the USPTO website at the following address:

<http://www.uspto.gov/web/offices/pac/checker>

# Raw Sequence Listing Error Summary

## ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/404,010

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 ☐ **Wrapped Nucleics**      The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 ☐ **Wrapped Aminos**      The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 ☐ **Incorrect Line Length**      The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 ☐ **Misaligned Amino Acid Numbering**      The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 ☐ **Non-ASCII**      This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 ☐ **Variable Length**      Sequence(s) \_\_\_\_\_ contain n's or Xaa's which represented more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) feature section that some may be missing.
- 7 ☐ **PatentIn ver. 2.0 "bug"**      A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid sequence(s) \_\_\_\_\_. Normally, PatentIn would automatically generate this section from the previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223> sections for Artificial or Unknown sequences.
- 8 ☐ **Skipped Sequences (OLD RULES)**      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 ☐ **Skipped Sequences (NEW RULES)**      Sequence(s) \_\_\_\_\_ missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000
- 10 ☒ **Use of n's or Xaa's (NEW RULES)**      Use of n's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.  
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 ☐ **Use of <213>Organism (NEW RULES)**      Sequence(s) \_\_\_\_\_ are missing this mandatory field or its response.
- 12 ☐ **Use of <220>Feature (NEW RULES)**      Sequence(s) \_\_\_\_\_ are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
Please explain source of genetic material in <220> to <223> section.  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 ☐ **PatentIn ver. 2.0 "bug"**      Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).  
Instead, please use "File Manager" or any other means to copy file to floppy disk.

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J. Landrees

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1646

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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/404,010

DATE: 07/26/2000  
TIME: 14:25:18

Input Set : A:\A682941.app  
Output Set: N:\CRF3\07262000\I404010.raw

Does Not Comply  
Corrected Diskette Needed

3 <110> APPLICANT: Luo, Ying  
4 Xu, Xiang  
6 <120> TITLE OF INVENTION: Novel Traf4 Associated Cell Cycle Proteins,  
7 Compositions and Methods of Use  
9 <130> FILE REFERENCE: A68294/DJB/RMS/DAV  
11 <140> CURRENT APPLICATION NUMBER: 09/404,010  
12 <141> CURRENT FILING DATE: 1999-09-23  
14 <160> NUMBER OF SEQ ID NOS: 9  
16 <170> SOFTWARE: PatentIn Ver. 2.1

ERRORED SEQUENCES

71 <210> SEQ ID NO: 2  
72 <211> LENGTH: 832  
73 <212> TYPE: RNA  
74 <213> ORGANISM: Homo sapiens  
76 <400> SEQUENCE: 2  
E--> 77 nsgnnaEEaP gakaPEPaaa vtnwFFard PvrdfPFELI PEPPEggLPg Pwalhrgrkk 60  
E--> 78 atgsPvsIFv ydvkPgaEEQ @Qvakaafkr FktLrhPnIL ayIdgLEtEk cLhvvteag 120  
E--> 79 PLgIyLkarv EaggLkeLEI swgLhQIvka LsFLvndcsL Ihnnvcmaav FvdragEwkL 180  
E--> 80 ggLdymysaQ gngggPPPrkg IPELEQydPP ELadssgrvv rEkwsadmwr LgcLIwEvFn 240  
E--> 81 gPLPaaaaLr nPgkIPktLa PhycELvgan PkvrnParF LQncraPgGF msnrFvEtnL 300  
E--> 82 FLEEIQIIEP aEkQkFFQEL sksLdaFPED FcrhkLLPQL LtaFEFGnag avvLtPLFKv 360  
E--> 83 gkFLsaEEyQ QKIIPvvvkm FsstdramrI rLLQmEQFI QyLdEPTvnt QIFPhvvhgF 420  
E--> 84 LdtnPaIrEQ tvksmLLLaP kLnEanLnVE LmkhFarLQA kDEQgPIren ttvcLgkIgs 480  
E--> 85 yLsastrhrv LtSaFsratr dPFaPsrvag vLgFaathnL ysmndcaQKI LPvLcgLtvD 540  
E--> 86 PEksvrdQaf kaFrSFLskL EsvsEdPtQL EEvEkdvhaa ssPgmggaaa swagwavgv 600  
E--> 87 ssLtskLIrs hPTtaPtEtn IPQrPtPEgv PaPaPtPvPa tPttsghwEt QEEdkdaEd 660  
E--> 88 sstadrwdde dwgsLEQEaE svLaQQddws tggQvsrasQ vsnsdhkssk sPEsdwsswE 720  
E--> 89 aEgswEQgwQ EPssQEPPsd gtrLasEynw ggPEssdkgd PFatLsarPs tQPrPdswgE 780  
E--> 90 dnwEgLEtds rQvkaELark kreErrrEmE akraErkvak gPmkLgarkL dZ 832

Letters in upper case are  
not valid base identifiers.

Sequence contains "t's". Not allowed in  
RNA sequence.

Sequence contains  
"n's". As per  
sequence rules,  
"n's" must be  
addressed in  
<220> to <223>  
feature.

\* See #10 on  
Error Summary  
Sheet

## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/404,010

DATE: 07/26/2000

TIME: 14:25:19

Input Set : A:\A682941.app

Output Set: N:\CRF3\07262000\I404010.raw

L:77 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:77 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:77 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:77 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:77 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:2  
L:77 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:25  
L:77 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:1  
L:77 M:112 C: (48) String data converted to lower case,  
L:78 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:78 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:78 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:78 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
M:340 Repeated in SeqNo=2  
L:78 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:26  
L:78 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:7  
M:112 Repeated in SeqNo=2  
L:79 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:79 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:79 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:79 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:79 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:21  
L:79 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:7  
L:80 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:80 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:80 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:80 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:80 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:20  
L:80 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:7  
L:81 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:81 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:81 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:81 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:81 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:24  
L:81 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:9  
L:82 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:82 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:82 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:82 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:82 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:36  
L:82 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:11  
L:83 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:83 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:83 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:83 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:83 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:31  
L:83 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:14  
L:84 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:84 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/404,010

DATE: 07/26/2000

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Input Set : A:\A682941.app

Output Set: N:\CRF3\07262000\I404010.raw

L:84 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:84 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:84 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:27  
L:84 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:18  
L:85 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:85 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:85 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:85 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:85 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:20  
L:85 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:23  
L:86 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:19  
L:86 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:25  
L:87 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:87 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:87 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:87 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:87 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:35  
L:87 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:37  
L:88 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:88 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:88 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:88 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:88 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:16  
L:88 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:39  
L:89 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:89 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:89 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:2  
L:89 M:258 W: Mandatory Feature missing, <223> not found for SEQ ID#:2  
L:89 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:25  
L:89 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:42  
L:90 M:258 W: Mandatory Feature missing, <220> not found for SEQ ID#:2  
L:90 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:2  
L:90 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:16  
L:90 M:321 E: (1) "t" not allowed in RNA Sequence, NUMBER OF INVALID 't' KEYS:43

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